State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-207 Relating to Certification of New Motor Vehicle Engines

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102, and 43103 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-45-3;

IT IS ORDERED AND RESOLVED: That the following General Motors Corporation 1981 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

Engine Family	Displacemen Cubic Inche	t s (Liters)	Exhaust Emission Control Systems (Special Features)
BGM0426FWF0	426	(7.0)	Aftercooler Throttle Delay
BGM0552FWG6	552	(9.0)	(Turbocharged) Aftercooler Throttle Delay
BGM0736FWH3	736	(12.1)	(Turbocharged) Aftercooler Throttle Delay
BGM08.2DAB5 BGM08.2EAB8	500 500	(8.2) (8.2)	(Turbocharged) Engine Modification Engine Modification (Turbocharged)

Engine Models and Codes as listed on attachments.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Hydrocarbons + Nitrogen Oxides gm/bhp-hr
BGM0426FWF0	0.8	3	6.0
BGM0552FWG6	0.7	2	6.0
BGM0736FWH3	0.6	2	5.5
BGM08.2DAB5	0.6	3	5.6
BGM08.2EAB8	0.5	2	5.4

BE IT FURTHER RESOLVED: That General Motors Corporation has provided to the Executive Officer all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this $\frac{5}{100}$ day of December, 1980.

K. D. Drachand, Chief

Mobile Source Control Division

1981 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

General Motors Corporation	Executive Order No. A-6-207 Page 1
Engine Family See Pgs 2-6	Evaporative Family NA
ABBREVIATIONS	Engine CID (Liters) See Pgs 2-6
Ignition System CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control	Exhaust Emissions Control System AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Medicination Exhaust Emissions Control System CCV-Combustion Chamber Valve CFI-Central Fuel Injection

Fuel System CFI, DI, EFI, MFI nV-nVenturi Carburetor VV-Variable Venturi

VA-Vacuum Advance

VR-Vacuum Retard

EM-Engine Modification OC-Oxidation Catalyst System
TR-Thermal Reactor
TWC-Three Way Catalyst System TD - Throttle Delay AC - Aftercooler

Injection DI-Diesel Injection EFI-Electronic Fuel Injection MFI-Mechanical Fuel Injection TC-Turbocharged

Issued: 120880.

Manufacturer	General Motors Corporation			Page 2	
Engine Family_	BGM0426FWF0	C1	D-Type	426 - 6L	
ECS(Special Fe	atures) Throttle	Delay and Afte	ercooler (T	urbocharged)	····
Engine Model	Fuel Injection	Injector	Maximum	Fuel Rate	lahel

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum 3 ^{HP} mm ³ /stroke	Label Ident.
6L-71TA	None	7G65 GMC 5229895	235 @ 2100	69.5	8922746
		7G70 GMC 5229900	250 @ 2100	73.6	
,		7G75 GMC 5229905	270 @ 2100	79.3	
		7G75 Constant Power 5229905	180 @ 1800 min.	60.8	

Date of Issue - 120880.

Manufacturer	General Motors	Corporation			Pa	ge <u>3</u>	
Engine Family	BGM0552FWG6		CID-T	уре	552 - V6		
ECS (Special Fea	tures) Throttle	Delay and Afte	rcool	er (Tu	bocharge	d)	
Engine Model	Engine Model Fuel Injection Pump Mfr. Part Number		Maximum Rated HP and RPM		Fuel Rate at Maximum HP mm ³ /stroke		Label Ident.
			HP	RPM	#1 D.F.	#2 D.F.	
6V-92TA	None	9C70 5229870	218	2100	71.7		8922746
ļ		9C75 5229875	239		76.0		
		9C80 5229880	263	 	81.2		
		9C85 5229885	285		87.0		
		9C90 5229890	305		92.2		
		9C90 Constant Power 5229890	240	1900	78.1		
6V-92TA		7G65	216 232	2100	69.3		
<u> </u>		5229895				71.7	
		7670 5229900	23 <u>6</u> 253		74.7	77.1	
		7G75 5229905	254 271		79.5	81.9	
1		9E65 5229970	222 240	2100	69.9	71.9	
	[9E70	240	2100	74.6		
		5229975	260			76.6	

Date of Issue - 120880. Max. rated HP was approx. 3% higher for 7G65,70 & 75 injectors before RC 8, approved on 050681. See page 3A for 9F injectors added by RC 12, on 092881.

Manufacturer_	General Motors	Corporation			Pa	g e 3A	
Engine Family	BGM0552FWG6	(CID(Li	ter)-T	ype!	552 - Ve	5
ECS (Speciai Fea	atures) Throttle [Delay and Afterco	oler	(Turboo	chrged)		
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Rati	imum ed HP RPM	Fuel at Maxim HP mm ³ /s	um troke	Label Ident.
			HP	RPM	#1D.F.		
6V-92TA	None	9F80 5226080	288	2100	82.1		8922746
	·	9F85 5226085	306		87.1 ·		
		9F90 5226090	325		92.7		
		9f90 Constant Power 5226090	240	1800	76.8		
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Date of Issue - 092881 - Pg 3A added by RC 12.

Engine Family	BGM0736FWH3						
	Bullot Sol Mils	(CID-Type	736 - V8			
ECS (Special Features) Throttle Delay and Aftercooler (Turbocharged)							
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum ^{3HP} mm ³ /stroke	Label Ident.		
8V-92TA	None	9C80 4229880	347 @ 2100	79.7	8922746		
		9C85 5229885	377 @ 2100	85.5			
		9C90 5229890	405 @ 2100	90.8			
		9C90 Constant Power 5229890	335 @ 1900 min.	80.1			
		9F80 5226080	400 @ 2100	82.5			
		9F85 5226085	425 @ 2100	87.5			
		9F90 5226090	440 @ 2100	92.5			
		9F90 Constant Power 5226090	335 @ 1800 min.	78.1			

Date of Issue - 120880. 9F series injectors added by RC 14, on 100181.

Manufacturer	General Motors	Corporation		Page 5	
Engine Family	BGM08.2DAB5		Liter-Type CID-Type_	8.2 - V8 500 - V8	
ECS (Special Fea	tures) Engine	Modification			
Engine Model	Fuel Injection Pump Mir. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum 3 ^{HP} mm ³ /stroke	Label Ident.
V8-8.2	None	4A53 GMC 5229850	165 @ 3000 RPM	52.5	8922577
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Date of Issue - 120880.

Manufacturer	General Motors	Corporation		Page	6
Engine Family_	BGM08.2EAB8		iter-Type ID-Type	8.2 - V8 500 - V8	
ECS (Special Fea	itures) ((Turbocharged)	Engine Modi	fication	
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm ³ /stroke	Label Ident.
V8-8.2T	None	4B65 GMC 5229965	205 @ 3000 RPM	65.5	8922576
		4C65 GMC 5229915	205 @ 3000 RPM	64.9	
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Date of Issue - 120880. 4065 injector added by RC 9, on 050481.